ABSTRACT

A system is disclosed which prevents the network congestion occurring when an extremely large number of terminals simultaneously switch subnet connections or an increase in data processing load stemming from the concentration of a large volume of data. In this system, a communicable range of a gate FG 13a and a communicable range of a gate FG 13b, constituting subnets different from each other, are made to overlap with each other so that the connections to the two gates FG can be made in this overlap range. On the other hand, on a mobile body 1 side, a large number of terminals (mobile nodes VMN 23) in the mobile body are grouped. Moreover, when the mobile body exists in the overlap range, the connection is switched from the subnet of the gate FG to the subnet of the other gate while times are staggered with each group 43. In particular, a VLAN 45 is established for each group and the path switching (movement of connection) is made in each VLAN, which facilitates the movement of the subnet to be connected according to group.